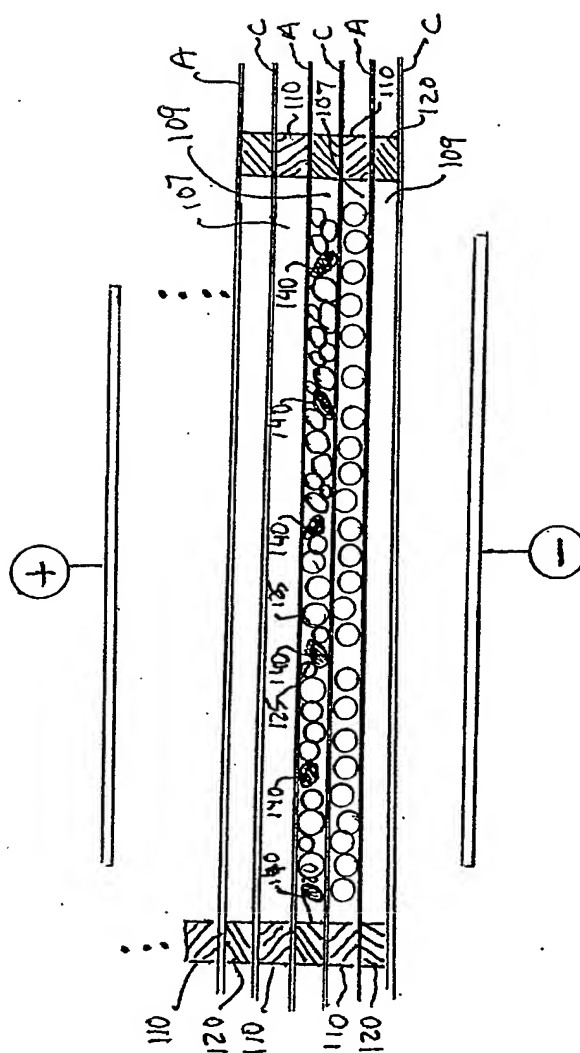


**Figure 1**



**Figure 2**

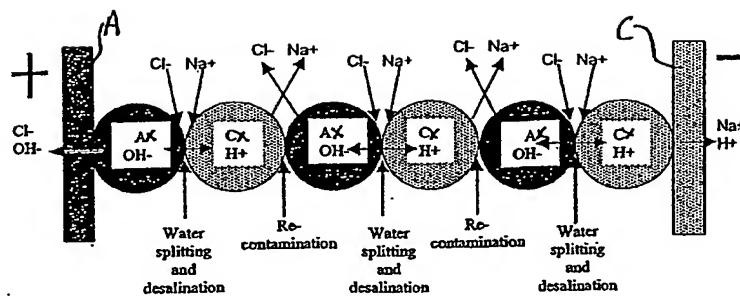
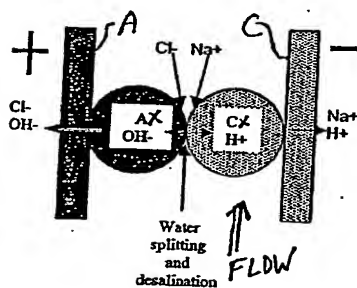


Figure 1A

↑ FLOW

Detail of water splitting, desalination and re-contamination in a typical EDI dilute cell of the prior art



Schematic presentation of water splitting and desalination in a bi-layer EDI dilute cell of the present invention

Figure 2A

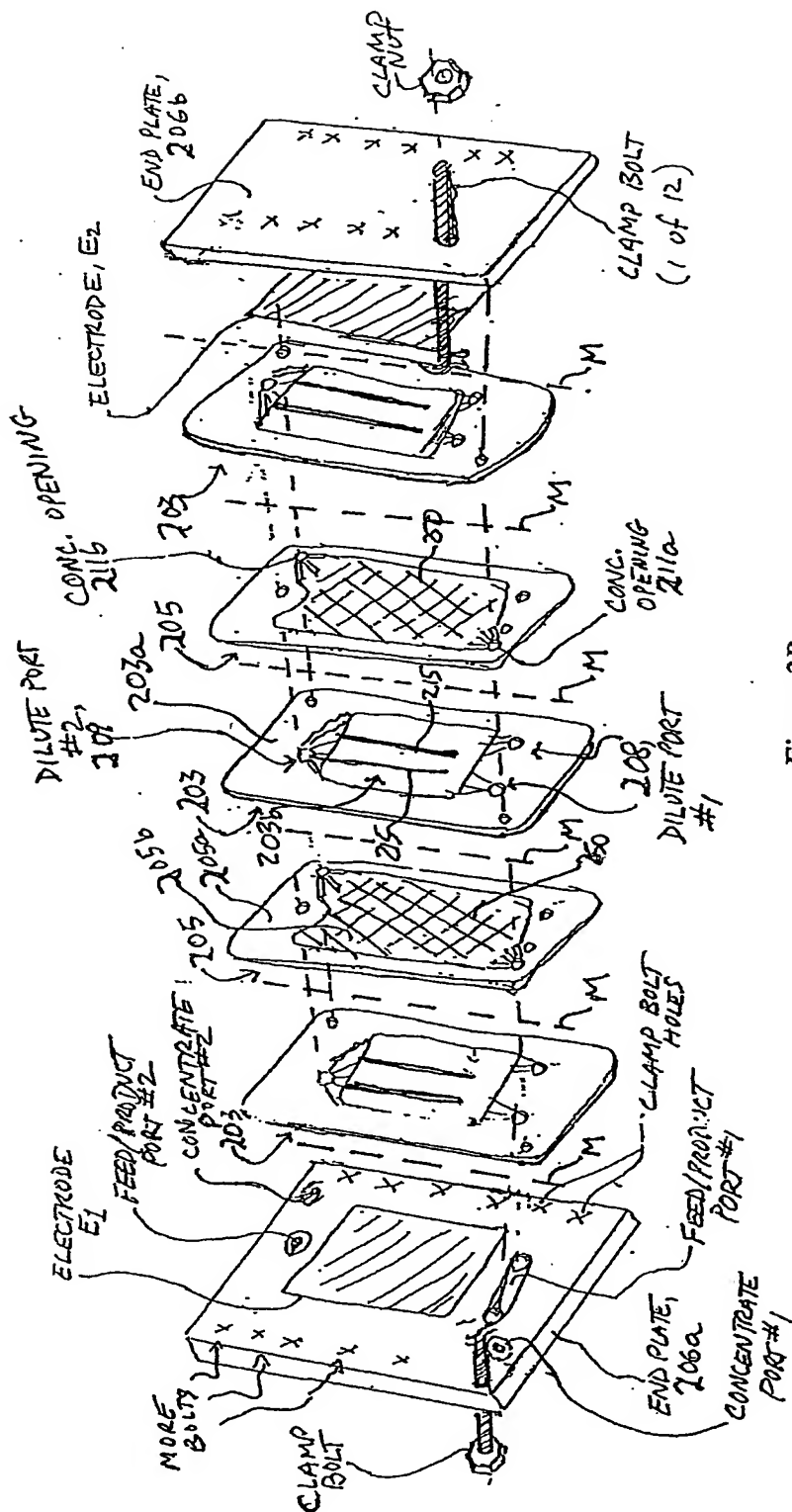
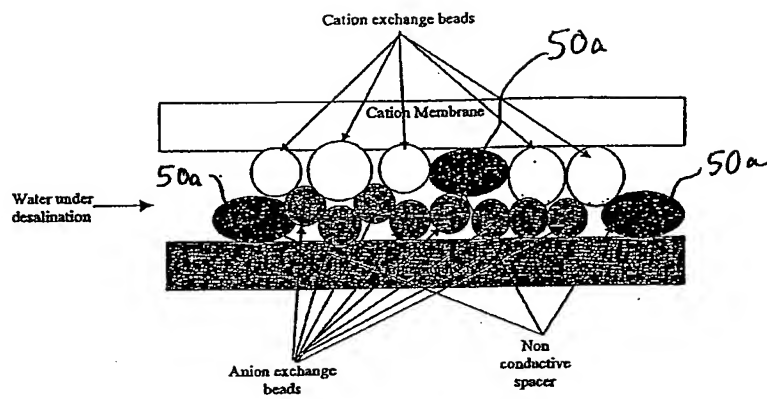
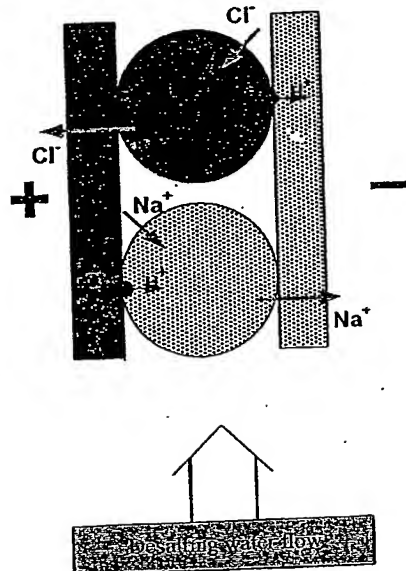


Figure 2B



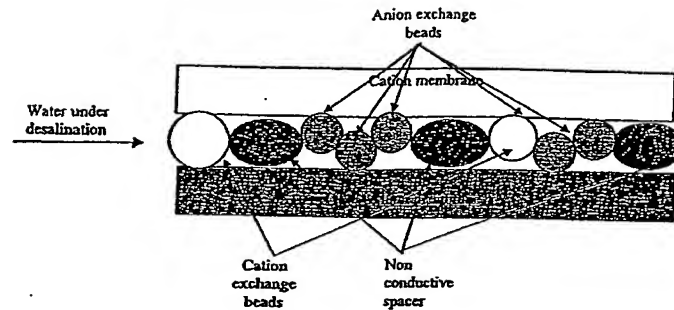
Schematic presentation of water splitting and desalination in a bi-layer EDI dilute cell with a spacer of the present invention

*Figure 3*



Schematic presentation of water splitting and desalination in a mono-layer EDI dilute cell of the present invention

*Figure 4*



Schematic presentation of water splitting and desalination in a mono-layer EDI dilute cell dilute cell with a spacer of the present invention

Figure 5

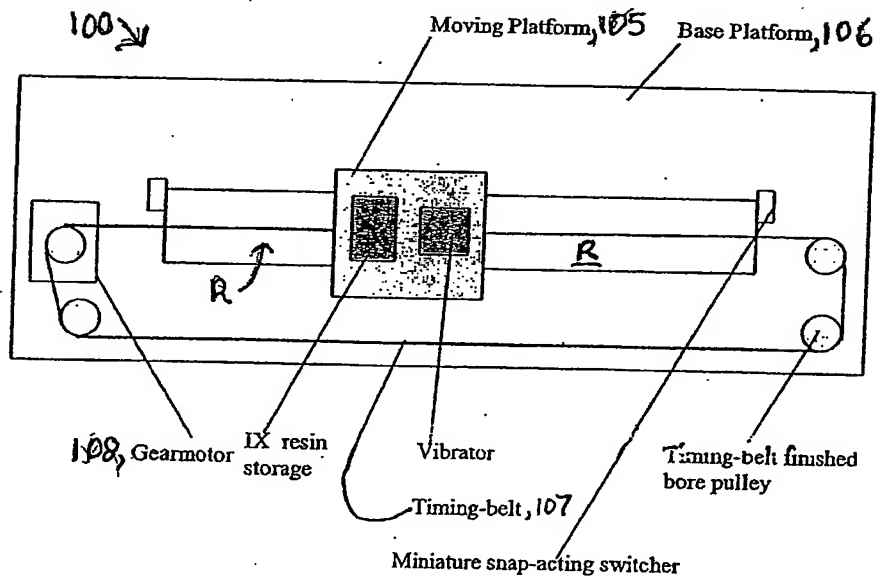
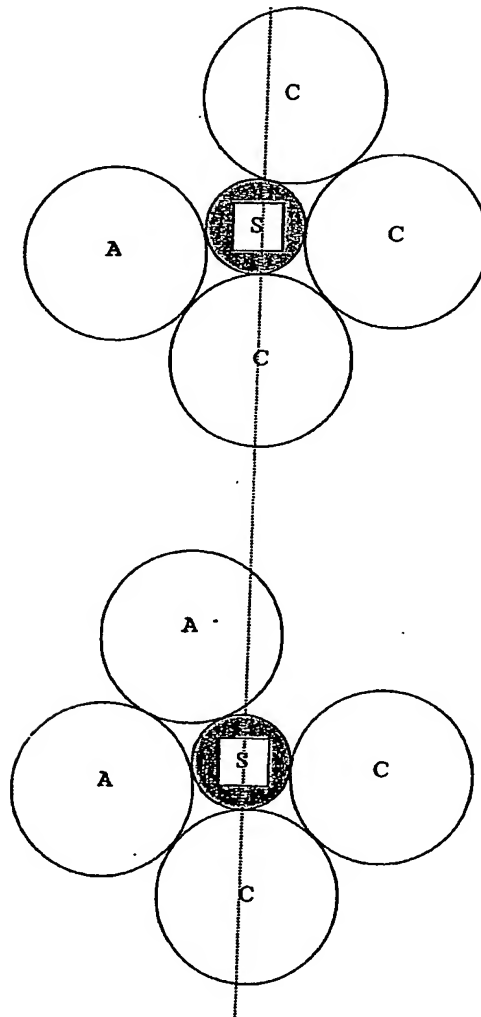
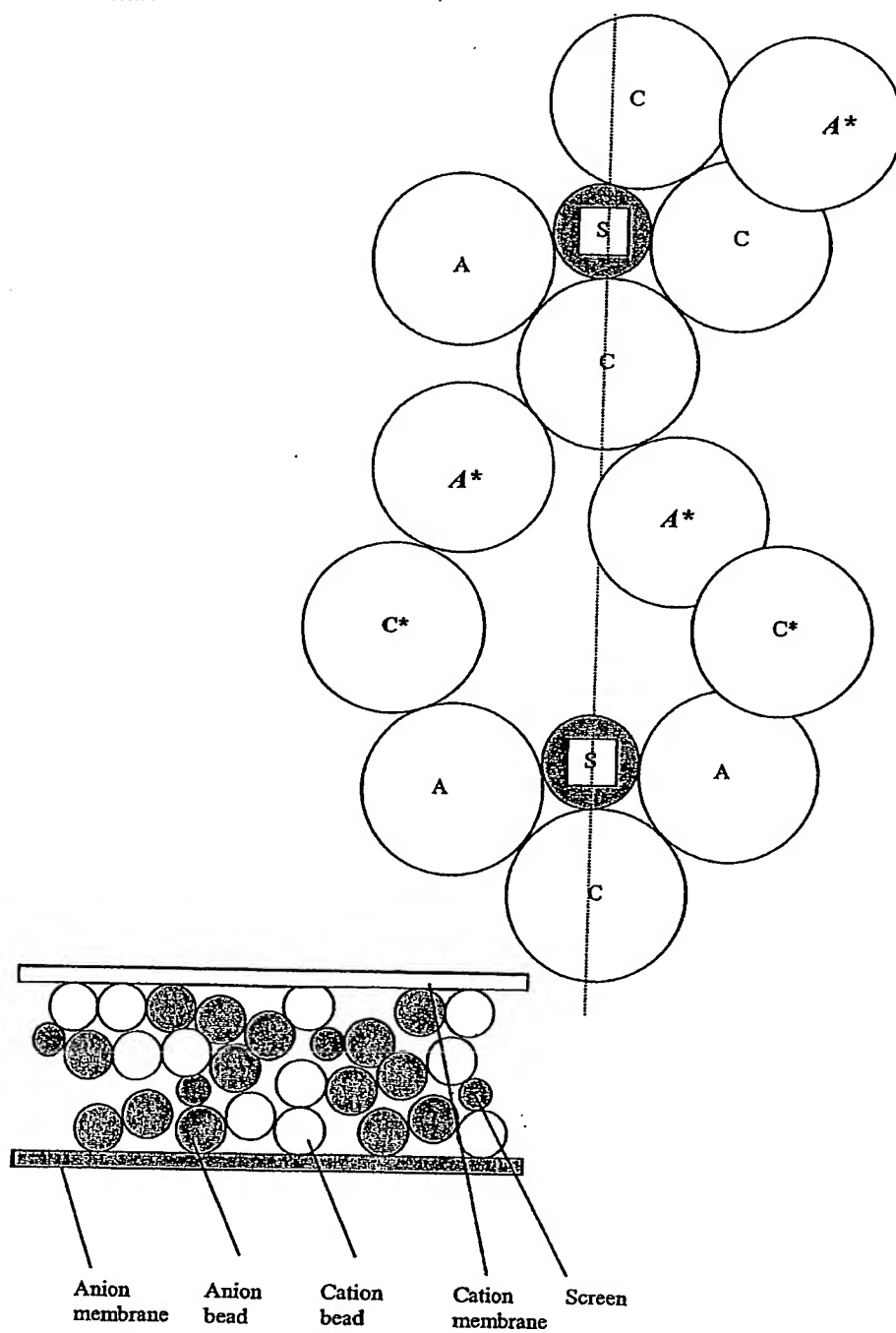


Figure 6

*Figure 5A. An enlarged detail in cross-section of a mixed resin three-layer embodiment of the cell of Figure 2.*



*Figure 5B. An enlarged detail in cross section of a mixed resin four-layer embodiment of the cell of Figure 2. Beads fixed on the screen by electrostatic attraction are marked by star.*



*Figure 5C. Multi-layer bead packing with screen between membranes.*



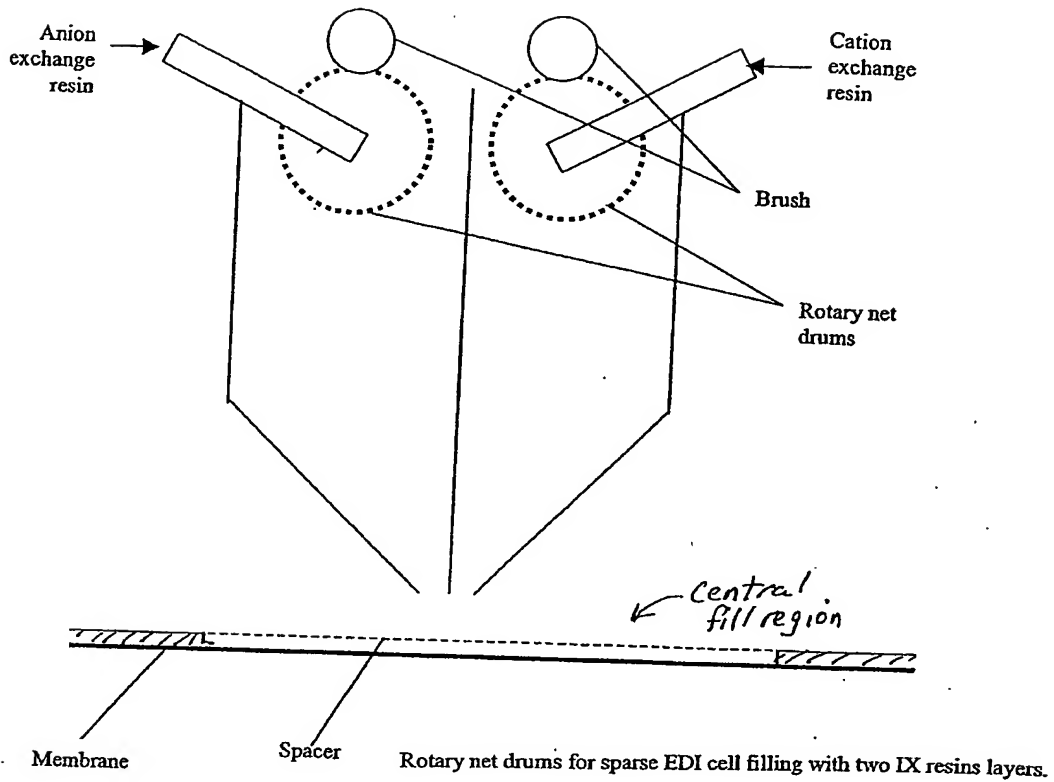


Figure 7

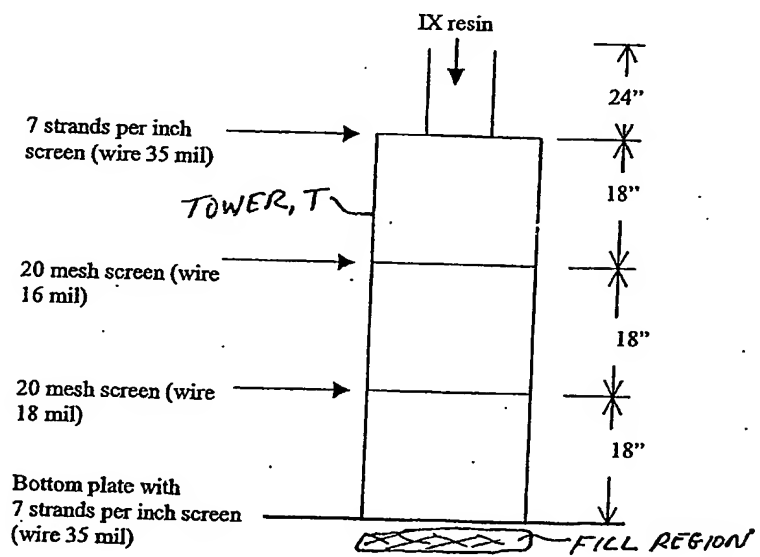


Figure 8